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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/062,139	02/01/2002	James E. DeGrange JR.	10.0430 (4372)	2518

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EXAMINER

TRAN, DZUNG D

ART UNIT PAPER NUMBER

2613

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	12/29/2006	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/062,139

Applicant(s)

DEGRANGE, JAMES E.

Examiner

Dzung D. Tran

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 October 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 and 12-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10, 12-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 4, 6-7, 9, 12-14 and 20-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Goodwin et al. U.S. Patent no. 6,701,089.

Regarding claims 1 and 9, Goodwin discloses in figure 5, a method for optimizing the performance of a wavelength division multiplexed optical communications system having at least a first and a second network element, the method comprising:

an OAM 112 for gathering information from optical service channel (OSC)117 on local communications assets local to the first network element 117 including launch path power values and channel information of the plurality of wavelength division multiplexed channels output from the first network element (col. 7, lines 13-46);

determining channel power value (equivalent to channel weighting values) for the wavelength division multiplexed channels output from the first network element based on the launch path power values and the channel information wherein at least one of

said plurality of channel weighting values is different from the remainder of said plurality of channel weighting values (col. 9 lines 38-48);

storing the launch path power values, the channel weighting values and the channel information in a database operatively connected to the first network element (col. 9 lines 26-29);

transmitting the channel weighting values from the first network element to the second network element (e.g., transmitting the information value over the OSC channel 117); and

said gathering step accessing the database to gather information on local communications assets local to the first network element (col. 7, lines 13-46).

Regarding claim 4, Goodwin further discloses the first network element 111 is capable of injecting at least one channel (e.g., channel 1) into the network, and controlling the launch power of the at least one injected channel according to the launch path power values (col. 8, lines 21-41).

Regarding claim 6, Goodwin discloses the controlling step including adjusting a variable optical attenuator in the launch path of the at least one channel according to the launch power settings (col. 9, lines 65-67 step 4B).

Regarding claim 7, Goodwin discloses the controlling including adjusting an output power of a transmitter (e.g., WDM source 301) transmitting the at least one channel according to the launch power settings (col. 9, lines 65-67 step 4B).

Regarding claims 12 and 20, Goodwin discloses in figure 5, a method for using coordinated channel power information in a network element of a wavelength division

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multiplexed optical communications system carrying a plurality of channels, the method comprising:

an OAM 112 for receiving channel weighting values and channel information for wavelength division multiplexed channels generated upstream of the network element (col. 7, lines 13-46);

calculating a reference value according to channel weighting values corresponding to the set of in-view channels (col. 9 lines 38-48);

storing the channel weighting values and the channel information in a database operatively connected to the first network element (col. 9 lines 26-29); and

utilizing the reference value as a basis for managing at least a portion of the network element corresponding to the point through which the in-view channels pass (col.9, lines 29-37);

determining a set of in-view channels that are passing through a point in the network element based on the channel information (col. 9 lines 38-48).

Regarding claims 13 and 14, Goodwin further discloses each channel is modulated with different frequencies (channel1, channel 2, ..., channel n) so that the upstream receiver can identify the corresponding channel (Figure 5).

Regarding claim 21, Goodwin further discloses the network includes amplifier 113, 115, 118 and

OAM 112 for determining a set of channels that are passing through the optical amplifier (col. 7, lines 32-37);

calculating a reference value according to channel weighting values
corresponding to the set of in-view channels (col. 9 lines 38-48); and
utilizing step controlling amplifier gain (col.7, lines 13-25).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 2, 3, 5, 8, 10 and 15-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goodwin et al. U.S. Patent no. 6,701,089 in view of Condict U.S. Patent no. 5,978,115.

Regarding claims 2, 3 and 8, Goodwin differs from claims 2, 3 and 8 of the present invention in that Goodwin does not specifically disclose service channel for carrying diagnostic and span topology information for the channels or network topology information to the network elements including channel source and channel block information for each of the channels and connectivity between the network elements.

Condict, from the same field of endeavor, discloses a span management system having service channel (col. 3, line 34) that carrying the channel information from the first network element 20 to the second network element 30.

Condict discloses service channel (col. 3, line 34) for carrying diagnostic and span topology (see col. 3, 34-37, e.g., equivalent to channel frequency, channel format

(e.g., SONET format, col. 3, line 6) and data rate (e.g., data rate at 2.5 Gbps is well recognized in the SONET system) information for the channels or network topology information (col. 3, line 37) to the network elements including channel source and channel block information (col. 4, line 39-40) for each of the channels and connectivity between the network elements.

At the time of the invention was made, it would have been obvious to a person of ordinary skill to the teaching of Condict in the WDM optical communications system of Goodwin. One of ordinary skill in the art would have been motivated to do that in order to transmit the supervisory channel or control channel that includes the channel information to the other network nodes. Thus it improves the network monitoring and controlling.

Furthermore, whether or not to have the supervisory channel to carry a channel frequency, channel format and data rate information for the channels or network topology information to the network elements including channel source and channel block information for each of the channels and connectivity between the network elements is obviously an engineering design choices.

Regarding claim 10, Condict discloses the WDM network is a SONET network (col. 3, line 4) and a 2.5 Gbps WDM channel is well recognized in the SONET system.

Regarding claims 15-17, Condict discloses for each communication channel, the network element can includes one or more "sources, sinks and blocks, see col. 4, line 31 to col. 5, line 27.

Regarding claim 18, Condict discloses the SCM based on the channel information to determine whether channels are enabled or not so (col. 5, lines 11-27).

Regarding claim 19, Condict discloses step triggering an alarm condition when a fault, such as fiber break occur (col. 6, lines 20-31).

Response to Arguments

5. Applicant's arguments filed on 10/05/2006 have been fully considered but they are not persuasive.

A Rejection claims 1, 4, 6-7, 9, 12,-14 and 20-21 under 35 U.S.C. 102(e) as being anticipated by Goodwin et al US Patent no. 6,701,089.

Applicant argues that Goodwin fails to disclose a newly added limitation "wherein the channel weighting values are based upon transmitter launch power and one or more of channel data rate, channel format, equipment configuration, and variable optical attenuator setting" recited in claims 1 and 12. However, col. 9, lines 21-29, step 2A of Weber clearly discloses for storing the launch path power values and col. 9 lines 38-48 discloses for determining channel power value (equivalent to channel weighting values) for the wavelength division multiplexed channels output from the first network element based on the launch path power values and the channel information

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dzung D Tran whose telephone number is (571) 272-3025. The examiner can normally be reached on 9:00 AM - 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan, can be reached on (571) 272-3022. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you

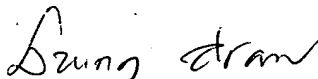
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have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dzung Tran
12/22/2006


DZUNG TRAN
PRIMARY PATENT EXAMINER